

INTERNATIONAL SEARCH REPORT

Int Application No
PCT/IB2004/050956

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/28 H04L12/56 H04L12/407

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/28170 A (BEYER DAVID A ; FULLMER CHANE L (US); GARCIA LUNA ACEVES J JOAQUIN (US) 19 April 2001 (2001-04-19)	1-4,11, 17,18,25
Y	abstract	5,6,12, 13,19,20
	page 3, line 23 - page 4, line 9 page 6, line 10 - line 16 page 8, line 25 - page 11, line 15 page 15, line 1 - page 24, line 24; figures 1-4	
Y	US 2002/163933 A1 (BENVENISTE MATHILDE) 7 November 2002 (2002-11-07)	5,6,12, 13,19,20
	abstract	
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

15 September 2004

Date of mailing of the international search report

10.11.04

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Jimenez Hernandez, P

INTERNATIONAL SEARCH REPORT

Patent Application No
PCT/IB2004/050956

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/21769 A (NOKIA NETWORKS ; GARCIA LUNA ACEVES JOSE J (US); FULLMER CHANE (US)) 14 March 2002 (2002-03-14) abstract page 4, line 11 - page 6, line 4 page 9, line 24 - page 11, line 6; figure 2 page 22, line 21 - page 23, line 13; figures 1,2,4,7	1-4,11, 17,18,25
X	----- WO 95/01020 A (XIRCOM INC) 5 January 1995 (1995-01-05) abstract; figures 12-37 page 3, line 4 - page 7, line 24	1-4,11, 17,18,25
A	----- US 6 192 053 B1 (ANGELICO DEAN ET AL) 20 February 2001 (2001-02-20) the whole document	1-6, 11-13, 17-20,25
A	----- BHARGHAVAN V ET AL: "MACAW: A MEDIA ACCESS PROTOCOL FOR WIRELESS LAN'S" COMPUTER COMMUNICATION REVIEW, ASSOCIATION FOR COMPUTING MACHINERY. NEW-YORK, US, vol. 24, no. 4, 1 October 1994 (1994-10-01), pages 212-225, XP000477053 ISSN: 0146-4833 the whole document	1-6, 11-13, 17-20,25
A	----- WEINMILLER J ET AL: "Analyzing and improving the IEEE 802.11-MAC protocol for wireless LANs" MODELING, ANALYSIS, AND SIMULATION OF COMPUTER AND TELECOMMUNICATION SYSTEMS, 1996. MASCOTS '96., PROCEEDINGS OF THE FOURTH INTERNATIONAL WORKSHOP ON SAN JOSE, CA, USA 1-3 FEB. 1996, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 1 February 1996 (1996-02-01); pages 200-206, XP010161831 ISBN: 0-8186-7235-8 the whole document	1-6, 11-13, 17-20,25

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2004/050956

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-6, 11-13, 17-20, 25

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6,11-13,17-20,25

Prioritizing of transmissions in a decentralized medium access control method and corresponding network according to claims 1 and 17 respectively.

1.1. claims: 2, 18

acknowledgement of reservation request

1.2. claims: 3,4

piggy-backing of reservation request/response

1.3. claim: 11

use of collision resolution mechanism for reservation request collisions

2. claims: 1,7,17,21

Reservation of periodic transmissions in a decentralized medium access control method and corresponding network according to claims 1 and 17 respectively.

3. claims: 1,8,9,10

Signalling of timing information regarding future transmission starting point in a decentralized medium access control method according to claim 1.

4. claims: 1,14-17,22-24

Use of revocation and/or update messages in a decentralized medium access control method and corresponding network according to claims 1 and 17 respectively.

INTERNATIONAL SEARCH REPORT

Inte Application No
PCT/IB2004/050956

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0128170	A	19-04-2001	US 6788702 B1	07-09-2004
			AU 776640 B2	16-09-2004
			AU 2296901 A	23-04-2001
			CA 2390061 A1	19-04-2001
			EP 1249101 A2	16-10-2002
			WO 0128170 A2	19-04-2001

US 2002163933	A1	07-11-2002	WO 03041346 A1	15-05-2003
			WO 03041428 A1	15-05-2003
			WO 03041427 A1	15-05-2003
			WO 03041343 A2	15-05-2003
			WO 03043357 A1	22-05-2003
			WO 03039054 A2	08-05-2003
			US 2002154653 A1	24-10-2002
			EP 1338125 A2	27-08-2003
			WO 0237754 A2	10-05-2002

WO 0221769	A	14-03-2002	AU 8866601 A	22-03-2002
			WO 0221769 A2	14-03-2002

WO 9501020	A	05-01-1995	AU 7210894 A	17-01-1995
			WO 9501020 A1	05-01-1995
			US 5838730 A	17-11-1998
			US 5729680 A	17-03-1998
			US 5717688 A	10-02-1998
			US 5875186 A	23-02-1999

US 6192053	B1	20-02-2001	US 2002006123 A1	17-01-2002
